

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from El Paso Natural Gas Company's Fire Water Canyon Unit No. 1, located in the Center of the SE1/4, SW1/4 of Sec. 1, T. 14 S., R. 18 E., Uintah County, Utah

0' of 30  
10' of 25  
25' of 15  
WA 254  
✓

Elevation 7054' Gr  
mahogany marker 6604'

Mahogany marker 6604'			Yield of product				Specific gravity of oil at 60°/60° F.		Properties of spent shale		Remarks
Sample number	Run No.	Weight percent		Gal. per ton		Oil	Water	Tendency to coke			
		Spent shale	Gas+ loss	Oil	Water						
Laramie	Ther										
SBR53-8118-9	235-255	30998-9				b					
SBR53-8150	255-265	31000	4.5	1.1	93.4	1.0	11.7	2.6	0.929	None	
SBR53-8151	265-275	31001	4.8	1.1	93.0	1.1	12.3	2.8	.926	None	
SBR53-8152	275-285	31002	2.1	2.0	95.2	.7	5.5	4.8	.920	None	
SBR53-8153	285-295	31003	2.3	1.9	95.1	.7	6.1	4.6	.920	None	
SBR53-8154	300-310	31004					c				
SBR53-8155	310-320	31005	5.8	1.2	91.9	1.1	15.0	3.0	.924	None	
SBR53-8156-8	320-350	31006-8					c				
SBR53-8159	350-360	31009					b				
SBR53-8160	360-370	31010					Trace				
SBR53-8161	370-380	31011					b				
SBR53-8162-4	380-410	31012-4					c				
SBR53-8165	410-420	31015	7.4	1.5	89.6	1.5	19.4	3.6	.914	None	
SBR53-8166	420-430	31016	2.2	1.1	95.9	.8	5.8	2.6	.914	None	
SBR53-8167-8	430-450	31017-8					c				
SBR53-8169	450-460	31019	8.8	1.7	87.8	1.7	23.1	4.1	.911	None	
SBR53-8170	460-470	31020	5.1	1.0	93.0	.9	13.3	2.4	.912	None	
SBR53-8171	470-480	31021					None				
SBR53-8172	480-490	31022					b				
SBR53-8173	490-500	31023					c				
SBR53-8174	500-510	31024					b				
SBR53-8175-6	510-530	31025-6					None				
SBR53-8177	530-540	31027					Trace				
SBR53-8178-80	540-570	31028-30					c				
SBR53-8181-2	570-590	31031-2					None				
SBR53-8183	590-600	31033					Trace				
SBR53-8184	600-610	31034					b				
SBR53-8185-7	610-640	31035-7					c				
SBR53-8188-9	640-660	31038-9					b				
SBR53-8190	660-670	31040					Trace				

b - Less than 1.0 gallon oil/ton of shale; c - More than 1.0 but less than 3.0 gallons of oil/ton of shale.

Core drill cuttings received October 2, 1953; assays made on air-dried samples.

Petroleum and Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. S. B. R. - 1328P January 21, 1954

## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from El Paso Natural Gas Company's Fire Water Canyon Unit No. 1, located in the Center of the SE1/4, SE1/4 of Sec. 1, T. 14 S., R. 12 E., Uintah County, Utah

Sample number	Run No.	Yield of product				Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke	Remarks	
		Weight percent		Spent shale	Gas+ loss				
		Oil	Water						Gal. per ton
Laramie	Ther	Oil	Water	Spent shale	Gas+ loss	Oil	Water		
SBR53-8191-5	670-720	31041-5				None			
SBR53-8196	720-730	31046				c			
SBR53-8197	720-730	31047				b			
SBR53-8198	730-740	31048				c			
SBR53-8199	740-750	31049	1.7	0.6	97.2	0.5	4.4a	1.4	None
SBR53-8200-4	760-810	31050-4				c			
SBR53-8205-7	810-840	31055-7				b			
SBR53-8208-12	840-890	31058-62				None			
SBR53-8213	890-900	31063				b			
SBR53-8214	900-910	31064				Trace			
SBR53-8215-7	920-950	31065-7				None			
SBR53-8218-9	950-970	31068-9				Trace			
SBR53-8220	1000-1010	31070				None			
SBR53-8221-2	1010-1030	31071-2				b			
SBR53-8223-8	1030-1090	31073-8				c			
SBR53-8229	1090-1100	31079				None			
SBR53-8230	1100-1110	31080				c			
SBR53-8231	1110-1120	31081				Trace			
SBR53-8232	1120-1130	31082				None			
SBR53-8233-4	1130-1150	31083-4				b			
SBR53-8235	1150-1160	31085				Trace			
SBR53-8236	1160-1170	31086				c			
SBR53-8237	1170-1180	31087				b			
SBR53-8238-324	1180-2050	31088-174				None			
SBR53-8325	2050-2060	31175				b			
SBR53-8326-7	2060-2080	31176-7				None			
SBR53-8328-9	2080-2100	31178-9				c			
SBR53-8330-2	2100-2130	31180-2				None			
SBR53-8333	2130-2140	31183				c			
SBR53-8334-41	2140-2220	31184-91				None			

a - Estimated; b - Less than 1.0 gallon of oil/ton of shale; c - More than 1.0 but less than 3.0 gallons of oil/ton of shale.

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## OIL-SHALE ASSAYS BY MODIFIED FISCHER RETORT METHOD

Samples from El Paso Natural Gas Company's Fire Water Canyon Unit No. 1, located in the Center of the SE1/4, SE1/4 of Sec. 1, T. 14 S., R. 12 E., Uintah County, Utah

Sample number		Run No.	Yield of product				Specific gravity of oil at 60°/60° F.	Properties of spent shale Tendency to coke	Remarks
			Weight percent		Gal. per ton				
Laramie	Ther		Oil	Water	Spent shale	Gas+ loss	Oil	Water	
SBR53-8342	2220-2230	31192					c		
SBR53-8343	2230-2240	31193					None		
SBR53-8344	2240-2250	31194					c		
SBR53-8345-6	2250-2270	31195-6					b		
SBR53-8347	2270-2280	31197					Trace		
SBR53-8348-50	2280-2320	31198-200					None		2290-2300
SBR53-8351	2320-2330	31201					b		
SBR53-8352-3	2330-2347	31202-3					c		
SBR53-8354	2340-2350	31204					b		
SBR53-8355	2350-2360	31205					Trace		
SBR53-8356-77	2360-2600	31206-27					None		2460-2470
SBR53-8378-9	2600-2620	31228-9					Trace		2560-2570
SBR53-8380-454	2620-3720	31230-304					None		2830-2930
									3360-3400
									3410-3460
									3480-3540
									3550-3620
									3640-3660
									3700-3710

b - Less than 1.0 gallon of oil/ton of shale; c - More than 1.0 but less than 3.0 gallons of oil/ton of shale.

Core drill cuttings received October 2, 1953; assays made on air-dried samples.

Petro-um and Oil-Shale Experiment Station, Laramie, Wyoming, Illustration No. S. B. R. - 1330P January 27 1954